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ABSTRACT

ELECTRICAL HEATING ARRANGEMENT

5 A temperature sensor assembly (30) is provided for an  
electrical heating arrangement (2). The temperature  
sensor assembly (30) includes a substrate (32) located in  
a heater (12). The substrate (32) has an upper surface  
(38) in contact with the lower surface (10) of a cooking  
10 plate (4). The upper and/or lower surface or surfaces  
(38, 66) of the substrate (32) is provided with a first  
temperature-sensitive resistance element (40) at a first  
region (42) of the substrate (32) proximate a peripheral  
region (34) of the heater. The upper (38) and/or lower  
15 (66) surface or surfaces of the substrate (32) is or are  
provided with a second temperature-sensitive resistance  
element (54; 54A; 54B) at a second region (56) of the  
substrate (32) proximate the central region (36) of the  
heater. A support member (70; 102) is secured to the  
20 substrate (32) and underlies at least the first region  
(42) of the substrate (32) and thermal insulation means  
(74) is interposed between the lower surface (66) of the  
substrate (32) and the support member (70) only at the  
first region (42) of the substrate (32).